

• 1902 • Third Annual Announcement. • 1902 •

The Buffalo Automobile Auto=Bi Co.

Buffalo, New York, U. S. A.

Motor Bicycles, Tricycles, &

Automobiles, and Auto=Quads.

Successors to The Motor Bicycle Department of the E. R. THOMAS
MOTOR COMPANY ✦ ✦ ✦ ✦ ✦ ✦ ✦ ✦ ✦

Radiating Coils, Mufflers, Carburetors, Hydrometers, Spark Coils,
Batteries, Sparking Plugs, Transmission Gears and Accessories.

Introductory.

IT has been said that "Experience is the great and indeed the only ultimate source of knowledge, not only of one man but the accumulated experience of many."

As the motor is the soul of the machine, it should be considered more than any one feature. We use exclusively motors made by the E. R. Thomas Motor Co., Buffalo.

They are the largest American manufacturers of automobile motors and are the largest manufacturers of bicycle motors in the world. They possess all the tools, jigs, gauges, etc., requisite for the most accurate and interchangeable construction.

Thomas motors are exported to all parts of the world, successfully competing with the best of every land. They are the only American motors that have made world records for speed against French and American motors rated at more than twice the power and weight; a record that never has, and we doubt if it ever will be equalled by any other company. They possess world's record for economy and durability. Thomas motors are fully guaranteed and judging by past records will develop much greater speed and efficiency than motors made by small manufacturers, a fact entirely due to the proper selection of material, the experience of large operations, the requisite mechanical equipment and the extraordinary care exercised in every detail.

Our 1902 Automobiles and motor bicycles represent the accumulated experience of nearly one thousand gasoline motors annually; the experience of a large concourse of dealers throughout the world and the experience of the most thorough and competent experts.

Simplicity is perfection, and that is our constant aim. The widest experience with amateur users has enabled us to provide against misuse in many respects, and to secure the greatest efficiency, under all conditions, we have thoroughly studied the requirements of the trade and believe that we are able to fulfill its requirements to a much higher degree of satisfaction than those of less experience. Our very large trade has been due to this fact accompanied by liberal and just treatment of all patrons, who are our best advertisement.

Guarantee.

We guarantee Thomas Bicycle Motors to be of higher efficiency and of better material and construction than any other made.

We guarantee Thomas Automobile Motors to be the equal in simplicity, efficiency, construction and material to any make.

We guarantee our Bicycles fully and liberally.

We guarantee our Automobile running gear fully and liberally.

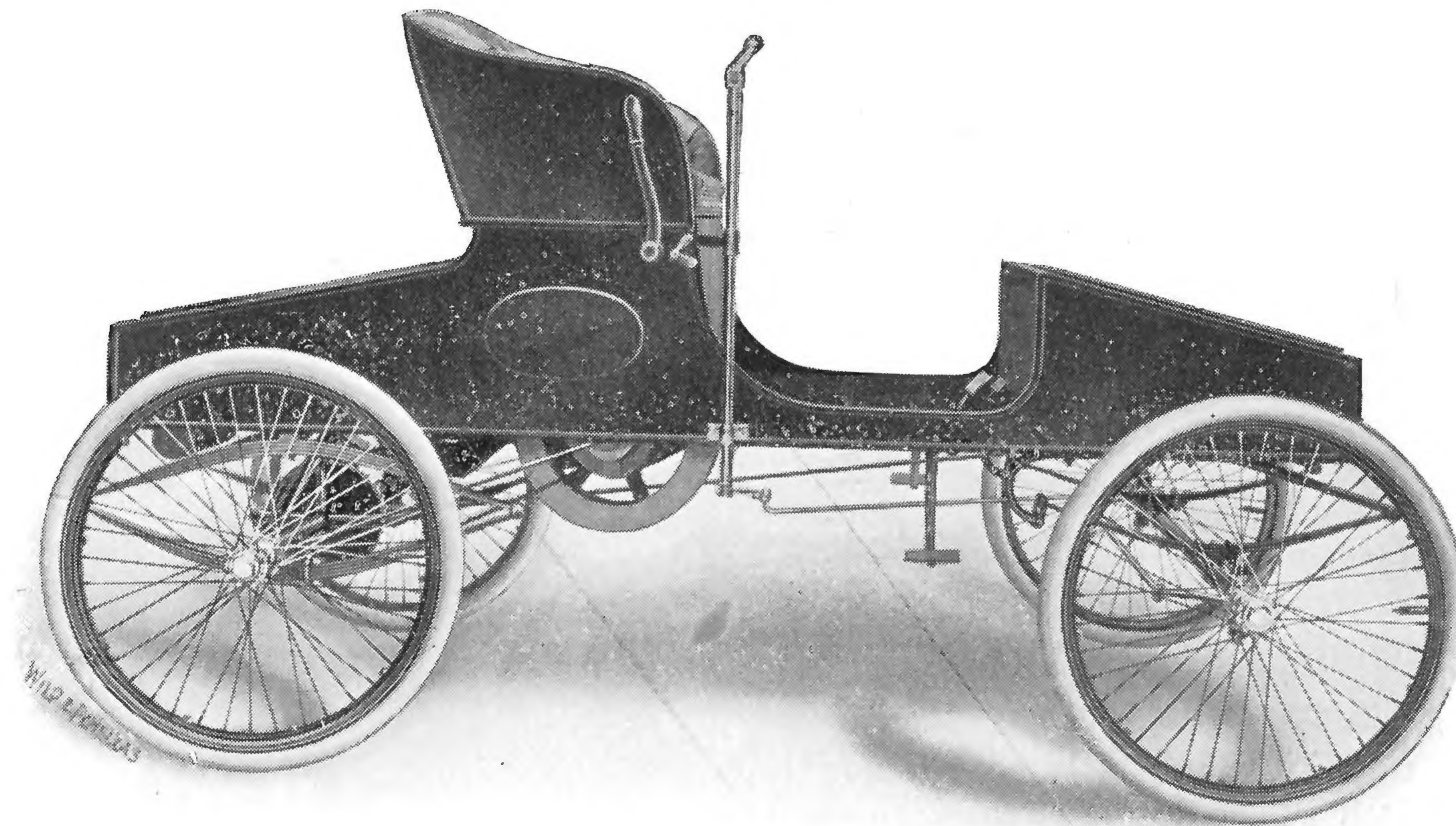
We will replace free of charge upon delivery to our factory, prepaid, any defective part.

BUFFALO AUTOMOBILE AND AUTO-BI CO.,

Buffalo, N. Y.

“Buffalo Sr.”

Model No. 7.



PRICE, \$800.00.

“The Buffalo Sr.”

THE “**Buffalo Sr.**” is a beautiful automobile of simple but modern design, and up-to-date equipment, and is especially designed to meet the requirements of professional and business men and families.

It has unusually large space for touring, space being reserved for suit case, rubbers, etc. Foot warming coils may be attached for winter riding. Seats are wide and roomy and tonneaus may be attached. The frame is made of channel iron, and very heavy front and rear axles, the latter trussed. Knuckles are forged and the whole running gear is unusually strong. All bearings are first class which, in connection with high efficiency of motor, is depended upon for speed rather than the dangerous expedient of very light weight. The two-speed forward and reverse gear is controlled by one lever; differential gears are spur.

Brakes are applied to the rear axle so that the vehicle can be stopped, thus avoiding the dangerous expedient of relying solely upon brakes applied to the engine.

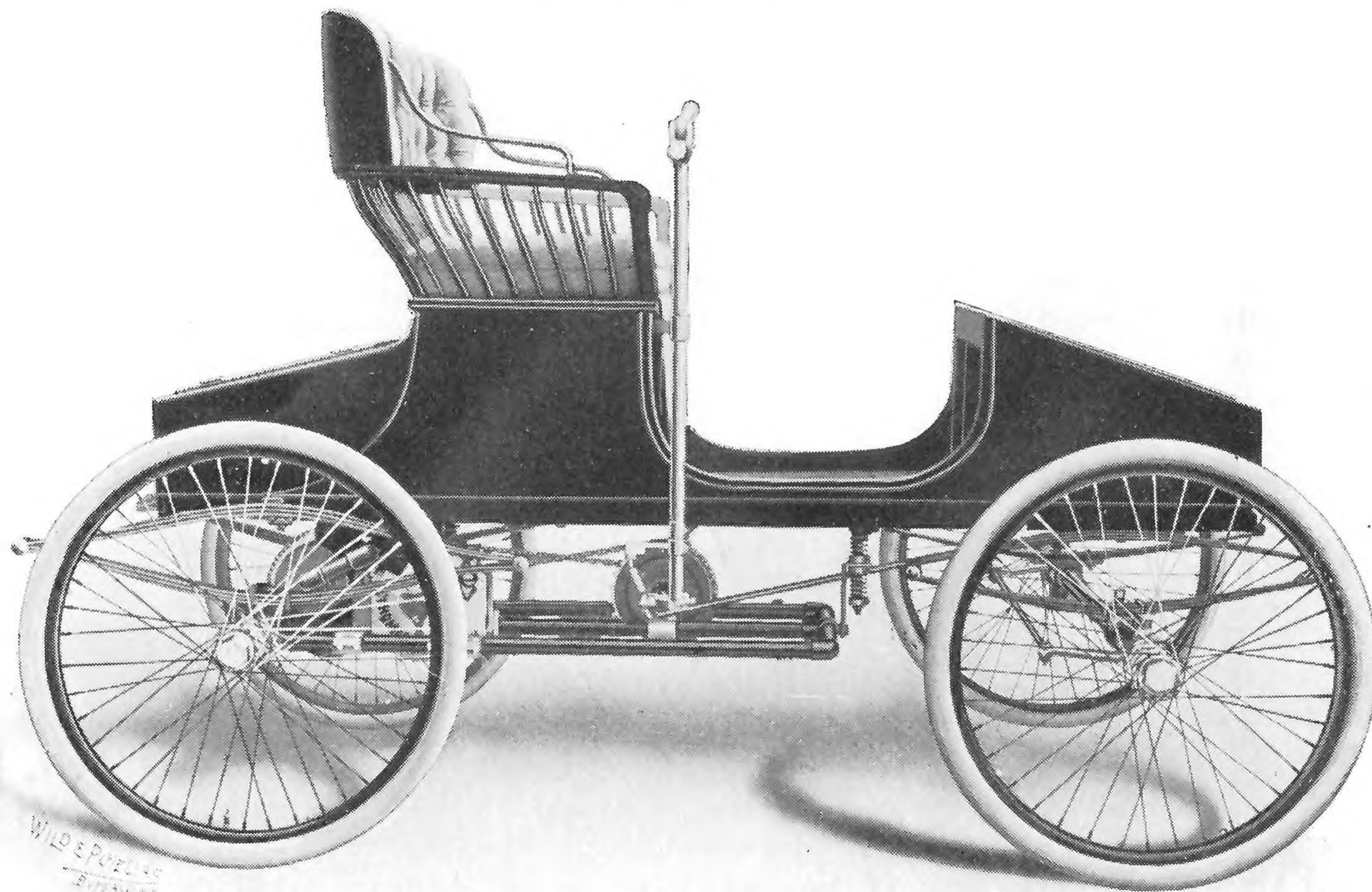
The speed gear is of the sun and planet system; the best yet devised.

Specifications: E. R. Thomas Motor, 6 H. P., Wheel Base 6 feet; Wheels, 28 inch; Tires 2½-x 28 inches; Weight, 800 lbs.; Two Speeds forward and reverse; Gasoline supply 150 miles; Water Supply. 150 miles; Low Speed, 6 miles per hour; High Speed, 25 miles per hour; Width, to Outside of Tires, 56½ inches; Width of Seat, 40 inches inside; Thomas Float Feed Carburator, Side Steering, Pump Cooling; Radiating Coils; Exhaust Lifts for easy starting; Tonneau Seats extra. See cut, page 8.

We present the **Buffalo Sr.** on account of its efficiency, quietness in operation, its style and beauty, and moderate price, as the very best selling proposition on the market.

“Buffalo Jr.”

Model No. 6.



PRICE \$600.00.

Specifications: E. R. Thomas Motor, water topped, $3\frac{1}{2}$ I. H. P.; wheel base, 5' 8" wheels, 28 inches; tires. 2 x 28 inches; weight, 400 lbs.; Two speeds forward and reverse; gasoline supply; 75 miles; water supply, 50 miles; low speed, 6 miles per hour; high speed, 20 miles per hour; width to outside of tire, 38 inches; width of seat, 40 inches. Thomas float feed carburator, side steering; radiating coils, exhaust lift for easy starting.

THE "**Buffalo Jr.**" is designed for a moderate priced vehicle for business and family purposes. It is of a type that has been thoroughly tested, and for which there is a large demand. As in all of our machines strict attention is paid to the motor; extra large bearings and accurate workmanship are the features. The motor is placed upon springs and no vibration is conveyed to the body. The Buffalo "Junior" is strictly high class, and is equipped with more expensive but satisfying features than are usually to be found on machines of this class.

GALT, Ont., September 30, 1901.

BUFFALO AUTOMOBILE AND AUTO-BI CO., Buffalo, N. Y.:

Gentlemen:—Without previous knowledge of gasoline motors I have operated one of your machines over a thousand miles with perfect satisfaction. As to its running powers it is truly a wonder, and I am glad to recommend it.

Sincerely yours,

(Signed) C. R. BANKS.

[Extract.]

DENVER, Colorado, Nov., 11, 1901.

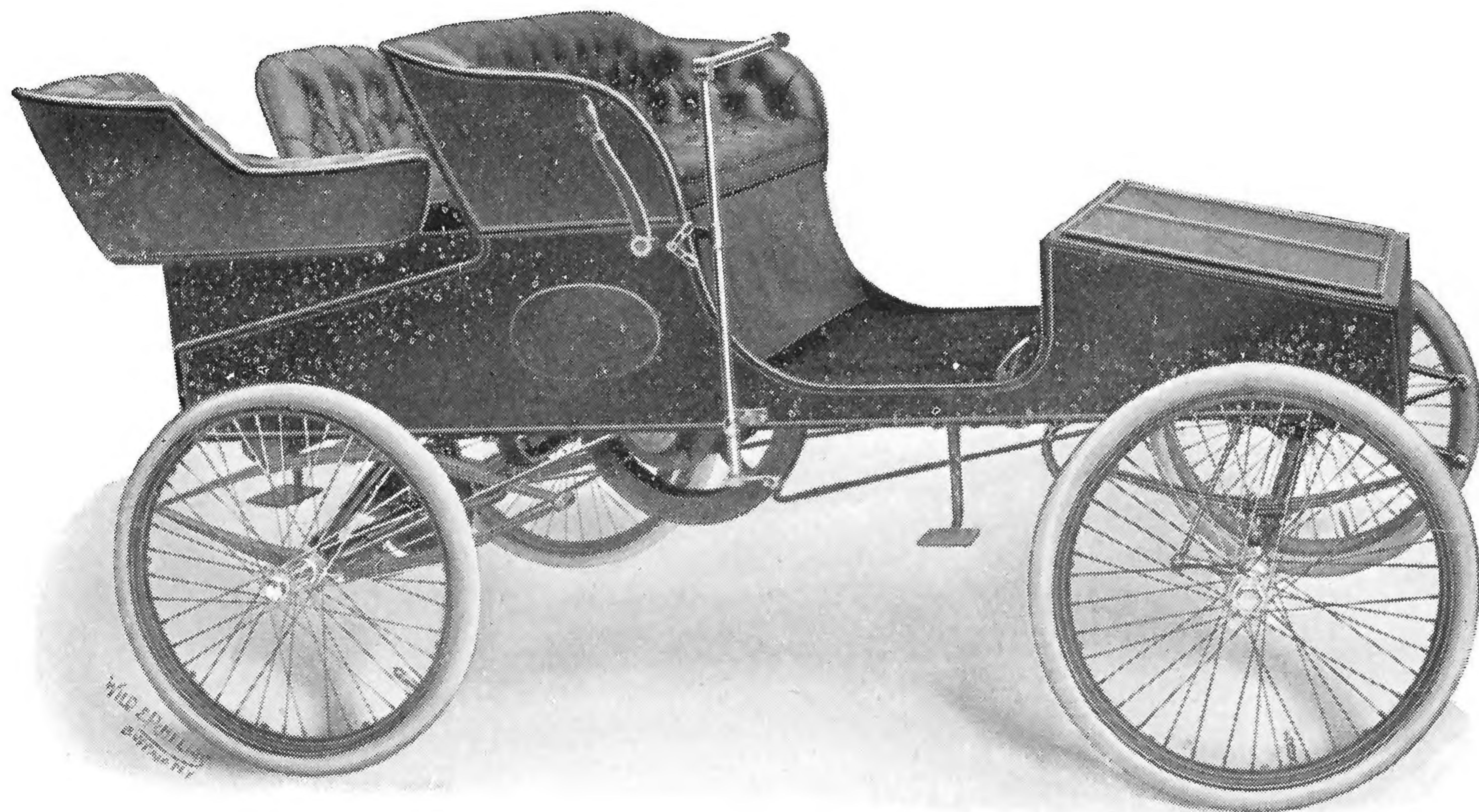
BUFFALO AUTOMOBILE AND AUTO-BI CO., Buffalo, N. Y.:

We could not begin to tell you how satisfactory the E. R. Thomas Motor proved itself on our machine the past half year.

(Signed) M. F. OLDS & CO.

Buffalo Tonneau.

Model No. 15.



PRICE, \$900.00.

Buffalo Tonneau.

Model No. 12.

Which has same specifications as Buffalo Sr., with addition of Tonneau.

The accompanying cut shows our Buffalo Automobile Model No. 7 with the addition of the Tonneau. Those familiar with these attachments will readily observe that it is of the most approved design. It is upholstered in leather, same as the stationary seat, is roomy and comfortable; can be easily and securely attached and quickly detached when necessary; thus in a few minutes the business and professional Automobile can be transformed into a luxuriant family carriage.

CAPE TOWN, South Africa.

We are glad to say we have received the three shipments of motors and motor bikes. The Thomas motor we fitted to a vehicle of our own design, and it gives entire satisfaction. I consider your motors better than the genuine . . . in many of the small details. Your contact breaker is better than any used on French or British engines.

We have had several motor cars and motor bicycle races here lately. The Thomas just walked away with the . . . A gold medal was won at the Duke and Duchess reception meeting. If possible shall forward this medal, so it can be exhibited by you.

Thanking you for the prompt attention we have had, I remain

Yours truly,

(Signed) JNO. A. JENKINS.

THE 1902 Auto-Bi has reached a standard of speed, strength and lightness not dreamed of when we originated the first commercially practical motor bicycle.

The Auto-Bi holds the world's records for speed, economy, durability and non-repairs. Equipped with a little Thomas $1\frac{1}{2}$ I. H. P. Motor the Auto-Bi, in the presence of 10,000 enthusiastic spectators at the Pan-American, performed the wonderful feat of making one mile in 1:22 1-5, and five miles in 7:05 4-5, beating the world's record previously made on bicycles equipped with French and American motors of *more than double* the weight and rated power. It is doubtful if this record will ever be equalled by a motor of the same size.

In the New York Journal century run they accomplished the same feat, and under the same conditions won an equal number of controls in the celebrated New York-Buffalo Endurance Contest, and out of nine motor bicycles starting, four Auto-Bi's started and four finished, while only one competitor reached the goal.

One thousand miles at an expense of \$1.00 by a prominent commercial traveler, E. F. Stewart, Bridgeton, N. J.; 2,800 miles without repairs, and 202 4-5 miles in one day over rough country roads in Northern Canada by Dr. Doolittle, a prominent Canadian physician, complete records that have never been approached by any competitor. Hundreds of testimonials from all parts of the world further emphasize the great superiority of the Auto-Bi.

In the past we have been practically without competition. Legitimate business competition is welcomed, but neither price or strenuous advertising should induce the purchase of a motor bicycle until the same has been thoroughly demonstrated by the use of hundreds by amateur riders.

Experts concede the superiority of our design in all details that contribute to efficiency and mechanical refinement, and backed by the knowledge born of the widest experience 1902 Auto-Bi's will develop and maintain much greater speed and last from two to three times as long as those made from ordinary material by inexperienced manufacturers. The following is merely a sample of hundreds of testimonials received from unsolicited sources.

BUFFALO AUTOMOBILE AND AUTO-BI CO.

UTICA, N. Y., November 24, 1901.

BUFFALO AUTOMOBILE AND AUTO-BI CO.:

Gentlemen:—I have used Auto-Bi No. 3 daily in all kinds of weather, on all kinds of roads, and can truthfully say that I have never been delayed a moment as a result of the motor's failing to work. It runs equally well in cold or warm weather, the mixing valve being perfectly adapted to all conditions and is practically automatic.

Many people have said that if the machine was driven with a motor of 2 or 2½ H. P. it would be better. My experience is that the motor is large enough, and no hill is too steep for it with slight assistance by the pedals, but if the road is smooth there are few hills it will not climb unaided, carrying the average man.

The Auto-Bi for the physician is the most economical, speediest and most easily cared for. I prefer it ten to one to a steam automobile which I used for a year previous to getting an Auto-Bi.

Very sincerely.

(Signed) EDWIN P. CLARK, M. D.

NEW EGYPT, N. J., October 3, 1901.

BUFFALO AUTOMOBILE AND AUTO-BI CO., Buffalo, N. Y.:

Gentlemen:—It is with much pleasure that I let you know that the Auto-Bi I purchased from you three months ago has given me entire satisfaction in every way. I have to put it to very hard use, as my official business calls me to strange places, and as I can never pick my ground I have to go over roads that are almost impassable. My Thomas Auto-Bi has never yet gone back on me. I have covered almost 2,000 miles on it and you would hardly know that the machine had been used.

Yours truly,

DR. L. E. FOULKS.

1902.

Auto-Bi. Model No. 3.

1902.



PRICE, \$150.00.

Auto=Bi.

Model No. 3.

Specifications: Height of frame 24 inches, wheels 28 inches, tires $1\frac{3}{4}$, E. R. Thomas Motor model No. 10, weight 90 pounds.

Many new features have been adopted that contribute to increased efficiency and comfort.

A new oil device (patents pending) is attached, entirely prevents oil from flying. Speed shifters are attached, steel front and rear V shaped pulleys, and large rawhide belt will greatly increase speed and hill climbing qualities. New improvements have been added to the motor which increase efficiency and durability. New self-cleaning spark plug, narrower spark vibrator, new mixer, new and neater design of tanks, and other attractive features will add to the reputation of this design.

WALTHAM, Mass., November 29, 1901.

E. R. THOMAS MOTOR CO.:

Your valued of the 25th in hand. Will say that I am more than pleased with what the little bicycle outfit has done for me this summer. My experience is very much like Mr. Banks'. I placed it on a tandem early in May and have ridden it about 1,700 miles. My wife has ridden 1,600 miles of it with me. We can average fifteen miles an hour over the country roads around here, and I call that good.

The three horse power has been doing fine on the four wheeler. Please give me prices on the new models. There will be use for some of them around here I know.

Yours truly,

C. I. SOUTHWICK,

1902.

Auto-Bi,

1902.

Roadster and Racer, Model No. 4.



PRICE, \$150.00.

\$175

Auto-Bi.

Model No. 4.

Specifications: Height of frame 22½ inches, wheels 28 inches, tires 1¾ inches weight 85 pounds.

THE *highest embodiment of artistic design, mechanical refinement, simplified features, light weight, added speed, strength and durability*, incorporating many new improvements never before introduced and only found on Auto-Bi's 4 and 5.

Every detail has been the subject of the most exhaustive and painstaking tests, creating a new standard for motor bicycles.

The average motor bicycle of greater weight and even less speed and strength look almost like monsters along side of beautiful models 4 and 5.

Experience has not only enabled us to simplify, beautify and wonderfully increase the durability and efficiency of the motors but has enabled us to apparently eliminate unsightly, confusing and troublesome electrical wires, lever controls, key switches, electrical grips, relief-cocks, throttles, etc., etc. A slight twist of the right handle bar grip regulates speed, relieves or closes compression. There are no throttles, no levers, and the danger of taking one hand off the handle bar to regulate the speed on rough country roads is entirely removed. Patents pending on these valuable improvements.

The supply of oil is contained in the top tube and is controlled by a pump of our own design, located under the top tube, which injects the proper supply of oil. This feature increases speed, higher efficiency and durability. Patents are pending on these valuable features.

A new oil device (patents pending) has been attached, which prevents oil from flying. New steel V shaped front and rear pulleys, with rawhide belt, to prevent slipping and to increase speed, are also added.

Attention is also called to the new Thomas muffler (patents pending), which by a slight turn of a lever turns the exhaust into the open instead of the muffler. For racing and hill climbing this is a valuable improvement.

A very neat belt tightener is attached, but, owing to belt and pulley improvements, it will not be found necessary except in very hilly countries.

Our great experience of the past has enabled us to detect and provide for the vibrating strains and shocks of a motor bicycle, and notwithstanding its refined appearance 1902 bicycles are made exceedingly strong. Heavy frame and fork tubing, plate crowns, extra strong crank brackets and reinforcements and high grade bearings are all features that will give perfect security and satisfaction. Note description of Motor in following pages.

January 24, 1902.

BUFFALO AUTOMOBILE AND AUTO-BI Co., Buffalo, N. Y.:

Gentlemen:—I have just returned from a trip to Paris, France, and while there went through . . . factory, where they employ 1,500 men. They are certainly doing a great business.

I have had a little experience with Thomas Motors, and think that they are equal to the . . . , and would like to handle their new Automobile with 6 H. P. Thomas Motor.

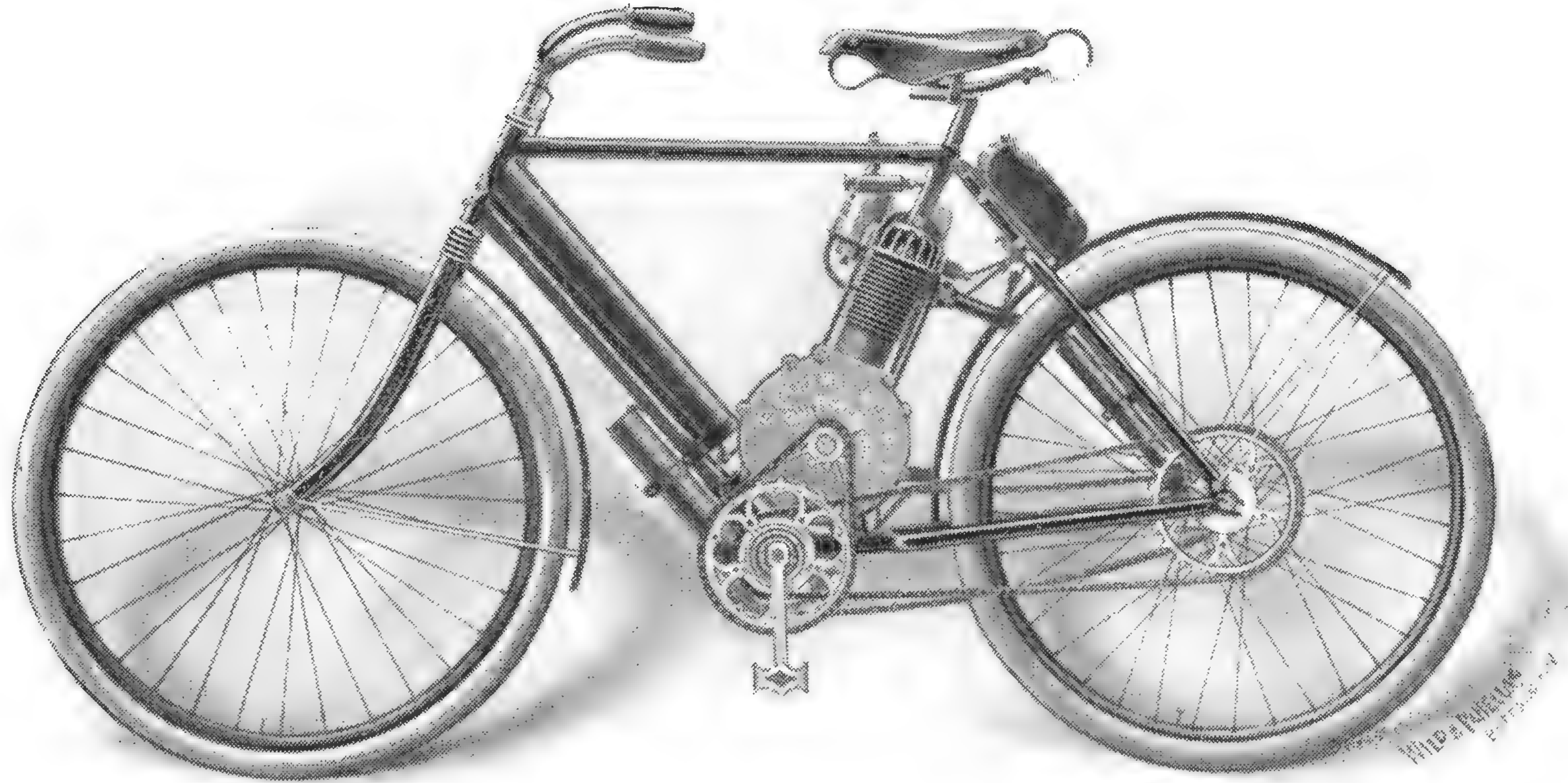
Yours truly,

CENTRAL CITY CYCLE CO.

1902.

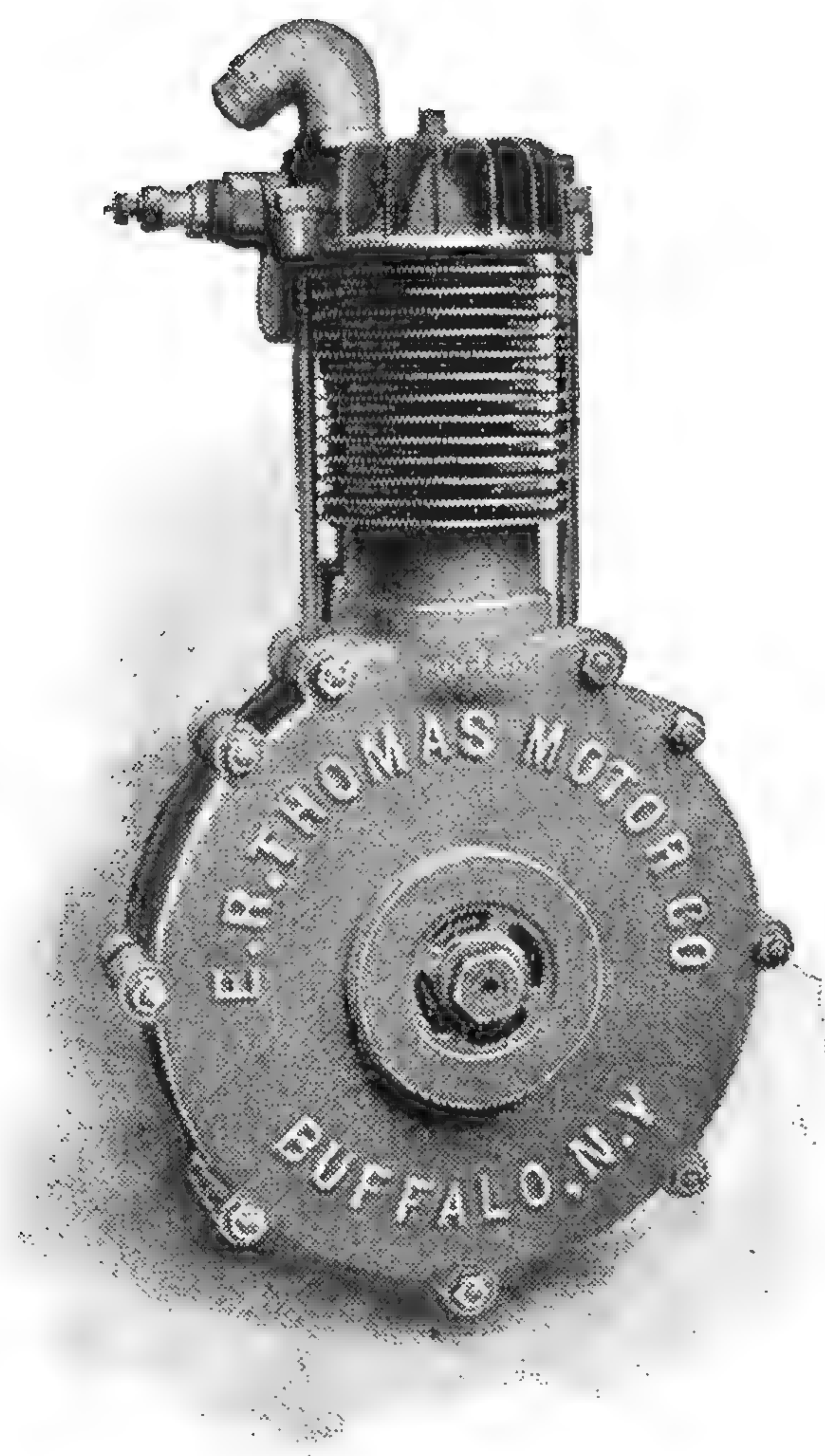
Auto=Bi.
Model No. 5.

1902.



PRICE, \$200.00.

Specifications are similar to Model No. 4, except chain transmission is substituted.



Model 21.

$2\frac{1}{2}$ I. H. P. Air Cooled.

General Dimensions.

Wide Bearings,
Forged Connecting Rods and Fly Wheels,
Narrow Tread.

Note closely comparative sizes of fly wheels and specifications as follows :

THOMAS $2\frac{1}{2}$ I. H. P. MOTOR.

OTHER MAKES

30 pounds,

Weight,

50 pounds.

18 inches,

Total Height,

$18\frac{1}{4}$ inches.

$9\frac{3}{4}$ " Outside Diameter of Crank Case, $9\frac{3}{4}$ "

$2\frac{3}{8}$ " Thickness of Crank Case, $3\frac{3}{4}$ "

$4\frac{3}{8}$ " Total Width of Crank Case, $9\frac{3}{4}$ "

AUTO-BI'S 4 and 5 are equipped with new E. R. Thomas Motor, model No. 21, especially designed for racers, roadsters, tandems and light tricycles.

It is nearly 50 per cent. lighter than the average motor of similar power, and is a radical and beautiful departure from the unsightly and unmechanical lines of the old style. It is bound to create a marked sensation in the motor world. Bearings are hardened and ground to size and are unusually wide. Connecting rods and fly wheels are *forged* and the *diameter* of fly wheels is unusually large, which insures the steadiest and smoothest operations. Exhaust lifters are enclosed, and vibrators are of new and exceedingly neat design. (Patents pending.) All gaskets are copper, lined with asbestos. A new Thomas self-cleaning spark plug is a great and well tested improvement.

Demonstrated Power of Motors.

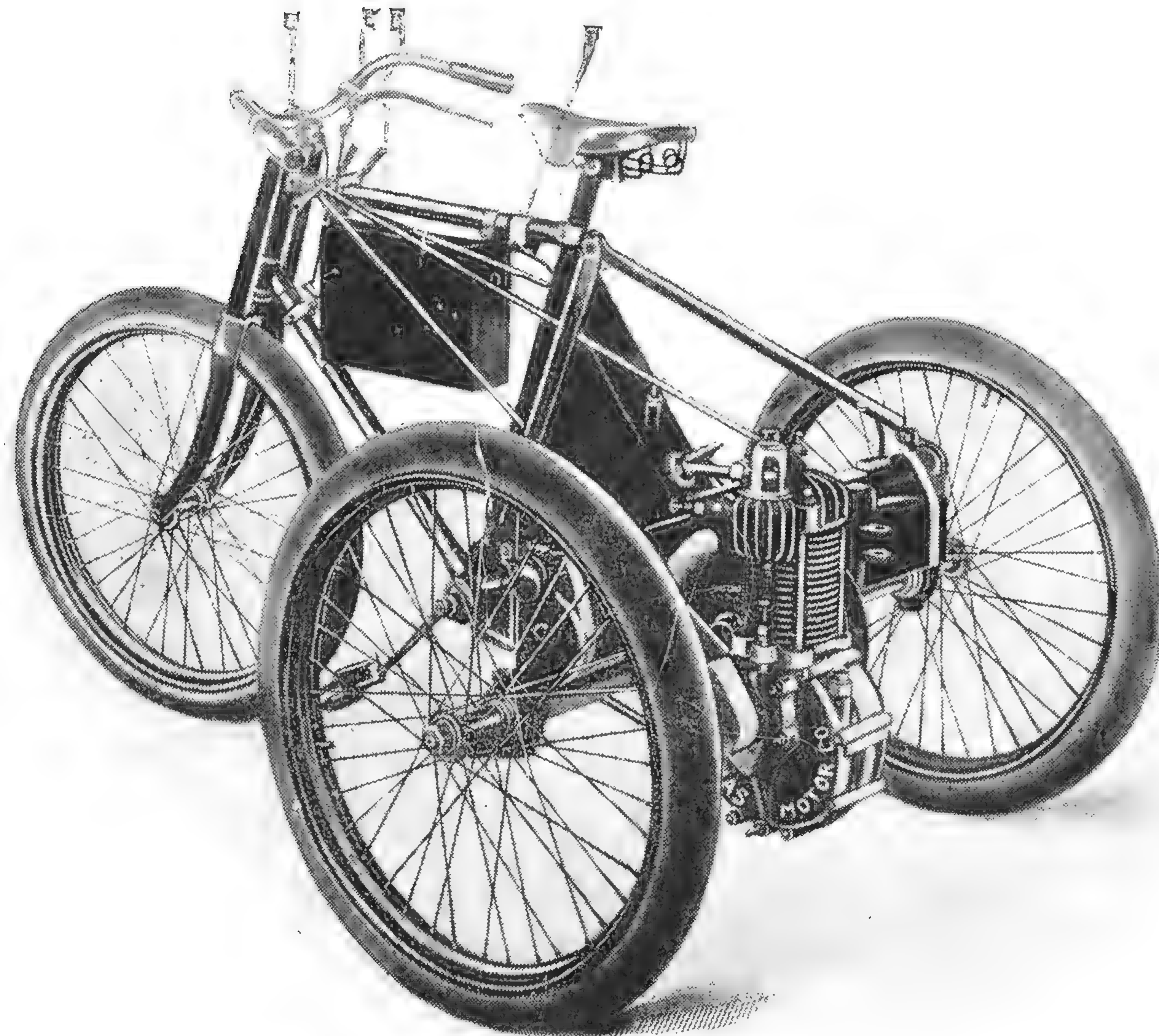
Under date of November 27th, J. A. Prince, of No. 70 Michigan Avenue, Chicago, sends us a photograph of his tandem equipped with our Motor and outfit, and says:

“It has pulled two of us on a smooth road 22 miles an hour, and we have averaged on a country road 16 miles an hour. Everybody is surprised at the work it does.”

Belts vs. Chains.

After elaborate and exhaustive tests of every known form of transmission, including wire stitched, twisted rawhide, platted rawhide, rope and chains, and, in accordance with the experience of the best riders and manufacturers, we unhesitatingly recommend the rawhide belt as productive of the best results for general purposes. Chain transmission is noisy, and the lack of elasticity makes it harder on the rider, motor and tires. We furnish our new rawhide belt on models 3 and 4, and chain on model 5 for those Who may prefer them.

Auto-Tri.



Auto=Tri.

PRICE:	Model No. 8 E. R. Thomas $2\frac{3}{4}$ I. H. P. Air Cooled Motor.....	\$250.00
“	Model No. 9 E. R. Thomas $3\frac{1}{2}$ I. H. P. Air Cooled Motor.....	300.00
“	Model No. 11 E. R. Thomas $3\frac{1}{2}$ I. H. P. Water Topped Motor.....	350.00

We have increased our supply, as well as the number of lines, owing to the steady demand for motor tricycles, which has been increased by the advent of the motor bicycle, the demand arising from that class who prefer sustained equilibrium and require something very light and practical.

They are exceedingly useful for light and fast work.

DECATUR, Ill., November 12, 1901.

E. R. THOMAS MOTOR Co , Elm and Broadway, Buffalo, N. Y.:

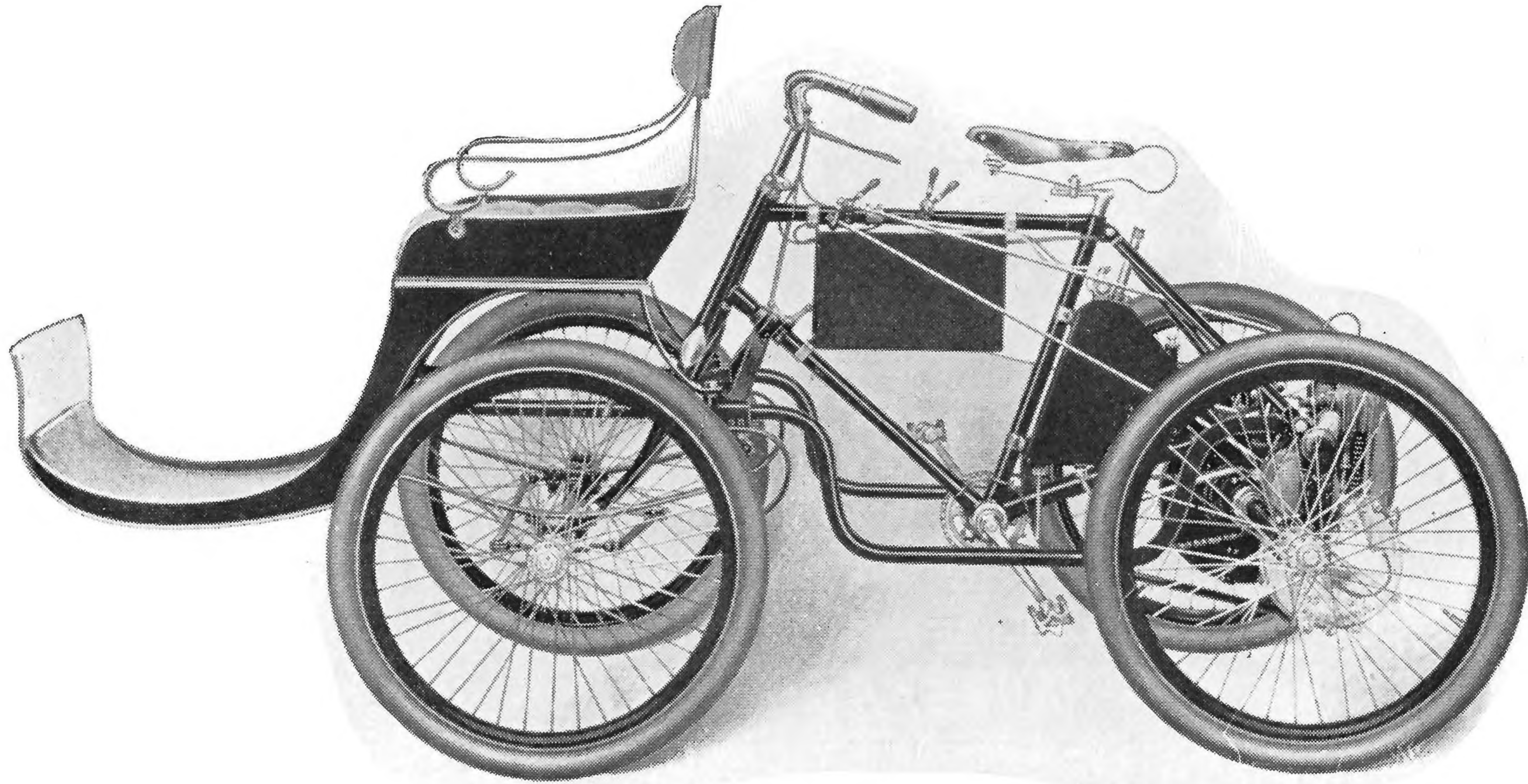
Gentlemen:—I received the Auto-Bi some time ago, and have tested it over the worst hills and roads we have around here; have also speeded it on the track. I made a mile in 2:01 I am more than pleased with the machine. I would not want one any better. Wishing you success, I remain,

Yours truly, (Signed) F. C. NEEDHAM.

C. F. Jones, M. D., of Webbwood, Ont., writes as follows:

“Have been having splendid satisfaction with the Motor during the cold weather. Had not anticipated that it would work in frosty weather.”

Auto=Quad.



Auto-Quad.

Specifications: The front steering wheel of the Auto-Tri is replaced by a frame carrying side wheels between which an upholstered seat is mounted on springs for the accommodation of a passenger. This passenger has nothing to do with the management of the machine, so that the Auto-Quad is precisely like the Auto-Tri.

It is also convertible and can be used either in tri or quad form, but the delight of carrying a passenger far surpasses the delight of tricycling alone. Since the Auto-Quad not laden with a passenger runs practically as fast and easily as a tri the owner seldom troubles to convert it into a tri, preferring rather to carry the empty seat.

The machine is so made that the springs which support the passenger seat allows the axle carrying the seat to rise and fall laterally, so that all four wheels remain on the ground when passing over irregularities in the road surface.

Both the front wheels are steered on separate centers by means of rods jointed to the end of the steering post controlled by the handle bar.

The seat can also be replaced by a neat delivery box, which makes a rapid and inexpensive delivery for parcels. This vehicle is furnished with three different powered motors, same as the Auto-Tri.

PRICE:	Model No. 12 E. R. Thomas $2\frac{3}{4}$ I. H. P. Air Cooled Motor.	\$400.00
“	Model No. 13 E. R. Thomas $3\frac{1}{2}$ I. H. P. Air Cooled Motor.....	.. 450.00
“	Model No. 14 E. R. Thomas $3\frac{1}{2}$ I. H. P. Water Topped Motor.....	500.00

HAMILTON, Ont., January 31, 1902.

THE BUFFALO AUTOMOBILE AND AUTO-BI Co.,
106 Broadway, Buffalo, N. Y.:

Dear Sirs:—As the season is now drawing near when we begin to think of getting ready for the coming summer I take the liberty of writing you in regard to business for 1902. If it is agreeable to you, I would like to continue as your agent for Hamilton. I wish to say that I think the motor bicycle is the ideal way of traveling. I have been on several long tours on my Auto-Bi and have never had an accident, breakdown or any trouble to speak of. I would be obliged if you would send me catalogues and prices for 1902.

Hoping you will again permit me to look after your business here, I remain,

Yours sincerely,

(Signed) JAMES MOODIE.

SPRINGFIELD, Mass., January 18, 1902.

AUTO-BI COMPANY, Buffalo, N. Y.:

Gentlemen:—In regard to your letter about me retaining the agency for 1902 of your Auto-Bi would say that I intend to handle a motor 'cycle this season and cannot see where I can better myself. My 1901 Auto-Bi has been more than satisfactory in every way, and I hope to see new model Auto-Bi for 1902 as soon as I can, for I am having inquiries every day about the new motor 'cycle.

Yours truly,

(Signed) J. E. WHITTEN & CO.